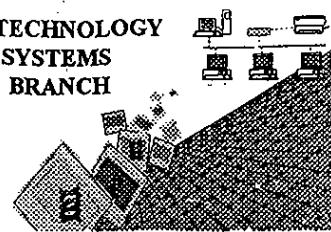


BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

10/635,265A

Source:

Date Processed by STIC:

1/16/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT

MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221

Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03

Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	<u>SERIAL NUMBER:</u> <u>10/635,265A</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 <input type="checkbox"/> Wrapped Nucleic <input type="checkbox"/> Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 <input type="checkbox"/> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <input type="checkbox"/> Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 <input type="checkbox"/> Non-ASCII <i>5 <input type="checkbox"/> Variable Length</i>	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
	<i>3</i> Sequence(s) <u>3</u> contain n's or Xaa's representing more than one residue. Per Sequence Rules , each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 <input type="checkbox"/> PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) <u> </u> . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 <input type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) <u> </u> missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 <input type="checkbox"/> Skipped Sequences (NEW RULES)	Sequence(s) <u> </u> missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 <input type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 <input type="checkbox"/> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 <input type="checkbox"/> Use of <220>	Sequence(s) <u> </u> missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 <input type="checkbox"/> PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <input type="checkbox"/> Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid	



IFWO

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/635,265A

DATE: 01/13/2004
TIME: 15:17:21

Input Set : A:\180-158-2 seq listing.ST25rev1.txt
Output Set: N:\CRF4\01132004\J635265A.raw

3 <110> APPLICANT: Duke University
4 York, John D
6 <120> TITLE OF INVENTION: NOVEL TARGETS FOR LITHIUM THERAPY AND TOXICITY TREATMENT
8 <130> FILE REFERENCE: 180/158/2
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/635,265A
C--> 10 <141> CURRENT FILING DATE: 2003-08-06
10 <150> PRIOR APPLICATION NUMBER: US 60/401480
11 <151> PRIOR FILING DATE: 2002-08-06
13 <160> NUMBER OF SEQ ID NOS: 24
15 <170> SOFTWARE: PatentIn version 3.2
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 2113
19 <212> TYPE: DNA
20 <213> ORGANISM: Homo sapiens
23 <220> FEATURE:
24 <221> NAME/KEY: mRNA
25 <222> LOCATION: (1)..(2113)
27 <400> SEQUENCE: 1
28 ggaattcggc acgagaagct cggtaactgga cacaacgagg gacctgggtc tacgataacg 60
30 cgctttgtc cctcctgaag tgtctttggc ccaacgttgt tccagagtgt accatggctt 120
32 ccagtaacac tgtgtttagt cggttggtag cctccgcata ttcttattgtc caaaaggcag 180
34 gaatgatagt cagacgtgtt attgctgaag gagacctggg tattgtggag aagacctgtg 240
36 caacagacct gcagacaaa gctgaccat tggcacagat gacatatgt tcttcattgg 300
38 cccggaaatt ccccaaactc acaattatacg gggaaagagga tctgccttct gaggaaatgg 360
40 atcaagagct gattaaagac agtcagtggg aagaataact gaagcaacca tgcccatcgc 420
42 agtacagtgc tattaaagaa gaagatctcg tggctctggg tgatcctctg gatggaaacca 480
44 aggaatatacg cgaaggctt cttgacaatcg taacagtgtt tatttggaaatt gcttatgaag 540
46 gaaaaggccat agcaggagtt attaaccacg catattacaa ctatgaggca ggaccagatg 600
48 ctgtgttggg gaggacaatc tggggagtt tagttttagg cgccttggg tttcagctga 660
50 aagaagtccc tgcgtggaaa cacattatca caactactcg atcccatagc aacaagtgg 720
52 ttactgactg tggctgtct atgaaccccg atgcgtgtct gcgagtagga ggagcaggaa 780
54 ataagattat tcagctgatt gaaggcaaa cctctgttta tggatgttca agtctgggt 840
56 gtaagaagtg ggatacttgt gctccagaag ttattttaca tgcgtgtggg ggcaagttaa 900
58 ccgatatacca tggaaatgtt cttcagtacc acaaggatgt gaagcatatg aactctgcag 960
60 gagtcctgca cacactgagg aattatgact actatgcaag ccgagttcca gaatcttata 1020
62 aaaatgcact tggctcttaa aggaaatgtt cattggccg ggccgggtgg ctcatgcctg 1080
64 taatccccgc actttggag gccgaggcag gtggatcaact tggatgttca agtggatgg 1140
66 cagcctggc aatatcgta gacccatct ctacaaaaat acaaaatggatgttca 1200
68 gtcatgcgcc tggatgttca gctacttgg aggtgttca agaagaatct tttggatggccg 1260
70 gaaggcggag gttcgttca gctggatgttca tggatgttca agtggatgg 1320
72 gttaaaggcctt gttcgttca aaaaacataa accaaaaaaat tacttaaagt ttcatgtt 1380
74 tacttaggaaa agacttgggtt ctcaaaataat acatgttca attaatttgg tagaatttgg 1440
76 gttccacccctt tttttttttt gacactgttca tttttttttt tatataatgttca 1500

PP.3167
Does Not Comply
Connected Diskette Needed

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/635,265A

DATE: 01/13/2004

TIME: 15:17:21

Input Set : A:\180-158-2 seq listing.ST25rev1.txt
 Output Set: N:\CRF4\01132004\J635265A.raw

78	taactaaata	attnaacttg	attaatacca	ttactcaacc	tgacaattga	gttggagact	1560									
80	tataaaactca	ttatggttat	catgtgttt	cctgttgaat	gtgaagaagt	gagaaaaacat	1620									
82	ttgccaatga	cagttaggcg	tgcacactga	ccattcactg	ataaaaccaga	ttctgcctga	1680									
84	atctgaaggg	attgttgcgt	gcatagggtt	tagtggcgtg	atcttgggtc	actgcggccc	1740									
86	gcttccgggg	ttcatgcttc	tcctgcctag	ctccgggtag	ctgggactgc	agcacggccc	1800									
88	acgctggtaa	ttttttgtat	gatggtgaga	agttttcacc	gtgttgccag	gatggcttat	1860									
90	cctgacatcg	tgatctgtat	gcctcggtc	ccaaagtgc	tgggatgaca	gctgtgagcc	1920									
92	acccgacttg	gcttaaacca	gatttctta	gggcacattt	ttttggaatc	tcactctgtt	1980									
94	tttcacagta	attnaaaaaa	cgttttatcc	aattagaata	tatatgtatgt	tattatataat	2040									
96	gcttatgaaa	cagatttatg	agaaaaagttt	tttttaataa	aattatttaa	tccctaaaaaa	2100									
98	aaaaaaaaaa	aaa					2113									
101	<210>	SEQ ID NO:	2													
102	<211>	LENGTH:	308													
103	<212>	TYPE:	PRT													
104	<213>	ORGANISM:	Homo sapiens													
107	<220>	FEATURE:														
108	<221>	NAME/KEY:	PEPTIDE													
109	<222>	LOCATION:	(1)..(308)													
111	<400>	SEQUENCE:	2													
113	Met	Ala	Ser	Ser	Asn	Thr	Val	Leu	Met	Arg	Leu	Val	Ala	Ser	Ala	Tyr
114	1						5			10						15
117	Ser	Ile	Ala	Gln	Lys	Ala	Gly	Met	Ile	Val	Arg	Arg	Val	Ile	Ala	Glu
118							20			25						30
121	Gly	Asp	Leu	Gly	Ile	Val	Glu	Lys	Thr	Cys	Ala	Thr	Asp	Leu	Gln	Thr
122							35			40						45
125	Lys	Ala	Asp	Arg	Leu	Ala	Gln	Met	Ser	Ile	Cys	Ser	Ser	Leu	Ala	Arg
126							50			55						60
129	Lys	Phe	Pro	Lys	Leu	Thr	Ile	Ile	Gly	Glu	Glu	Asp	Leu	Pro	Ser	Glu
130							65			70						80
133	Glu	Val	Asp	Gln	Glu	Leu	Ile	Glu	Asp	Ser	Gln	Trp	Glu	Glu	Ile	Leu
134							85			90						95
137	Lys	Gln	Pro	Cys	Pro	Ser	Gln	Tyr	Ser	Ala	Ile	Lys	Glu	Glu	Asp	Leu
138							100			105						110
141	Val	Val	Trp	Val	Asp	Pro	Leu	Asp	Gly	Thr	Lys	Glu	Tyr	Thr	Glu	Gly
142							115			120						125
145	Leu	Leu	Asp	Asn	Val	Thr	Val	Leu	Ile	Gly	Ile	Ala	Tyr	Glu	Gly	Lys
146							130			135						140
149	Ala	Ile	Ala	Gly	Val	Ile	Asn	Gln	Pro	Tyr	Tyr	Asn	Tyr	Glu	Ala	Gly
150							145			150						160
153	Pro	Asp	Ala	Val	Leu	Gly	Arg	Thr	Ile	Trp	Gly	Val	Leu	Gly	Leu	Gly
154							165			170						175
157	Ala	Phe	Gly	Phe	Gln	Leu	Lys	Glu	Val	Pro	Ala	Gly	Lys	His	Ile	Ile
158							180			185						190
161	Thr	Thr	Thr	Arg	Ser	His	Ser	Asn	Lys	Leu	Val	Thr	Asp	Cys	Val	Ala
162							195			200						205
165	Ala	Met	Asn	Pro	Asp	Ala	Val	Leu	Arg	Val	Gly	Gly	Ala	Gly	Asn	Lys
166							210			215						220
169	Ile	Ile	Gln	Leu	Ile	Glu	Gly	Lys	Ala	Ser	Ala	Tyr	Val	Phe	Ala	Ser
170							225			230						240

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/635,265A

DATE: 01/13/2004
TIME: 15:17:21

Input Set : A:\180-158-2 seq listing.ST25rev1.txt
Output Set: N:\CRF4\01132004\J635265A.raw

173 Pro Gly Cys Lys Lys Trp Asp Thr Cys Ala Pro Glu Val Ile Leu His
174 245 250 255
177 Ala Val Gly Gly Lys Leu Thr Asp Ile His Gly Asn Val Leu Gln Tyr
178 260 265 270
181 His Lys Asp Val Lys His Met Asn Ser Ala Gly Val Leu Ala Thr Leu
182 275 280 285
185 Arg Asn Tyr Asp Tyr Tyr Ala Ser Arg Val Pro Glu Ser Ile Lys Asn
186 290 295 300

189 Ala Leu Val Pro

190 305

193 <210> SEQ ID NO: 3

194 <211> LENGTH: 27

195 <212> TYPE: PRT

196 <213> ORGANISM: Artificial

198 <220> FEATURE:

199 <223> OTHER INFORMATION: Li-sensitive sequence uniting motif.

202 <220> FEATURE:

203 <221> NAME/KEY: MISC_FEATURE

204 <222> LOCATION: (2)..(2)

205 <223> OTHER INFORMATION: X is any number of integers of any amino acid.

variable length not permitted. See item 5 on
Error
summary
sheet.

207 <220> FEATURE:

208 <221> NAME/KEY: MISC_FEATURE

209 <222> LOCATION: (5)..(5)

210 <223> OTHER INFORMATION: X is any number of integers of any amino acid.

212 <220> FEATURE:

213 <221> NAME/KEY: MISC_FEATURE

214 <222> LOCATION: (8)..(8)

215 <223> OTHER INFORMATION: X is isoleucine or an amino acid that can be conservatively substituted in place thereof.

216 <220> FEATURE:

219 <221> NAME/KEY: MISC_FEATURE

220 <222> LOCATION: (10)..(10)

221 <223> OTHER INFORMATION: X is glycine or an amino acid that can be conservatively substituted in place thereof.

222 <220> FEATURE:

225 <221> NAME/KEY: MISC_FEATURE

226 <222> LOCATION: (11)..(11)

227 <223> OTHER INFORMATION: X is threonine or an amino acid that can be conservatively substituted in place thereof.

228 <220> FEATURE:

231 <221> NAME/KEY: MISC_FEATURE

232 <222> LOCATION: (12)..(12)

233 <223> OTHER INFORMATION: X is any number of integers of any amino acid.

235 <220> FEATURE:

236 <221> NAME/KEY: MISC_FEATURE

237 <222> LOCATION: (13)..(13)

238 <223> OTHER INFORMATION: X is tryptophan or an amino acid that can be conservatively substituted in place thereof.

239 <220> FEATURE:

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/635,265A

DATE: 01/13/2004
TIME: 15:17:21

Input Set : A:\180-158-2 seq listing.ST25rev1.txt
Output Set: N:\CRF4\01132004\J635265A.raw

242 <221> NAME/KEY: MISC_FEATURE
243 <222> LOCATION: (14)..(14)
244 <223> OTHER INFORMATION: X is aspartic acid or an amino acid that can be conservatively

245 substituted in place thereof.

247 <220> FEATURE:

248 <221> NAME/KEY: MISC_FEATURE

249 <222> LOCATION: (15)..(25)

250 <223> OTHER INFORMATION: X is any amino acid.

252 <400> SEQUENCE: 3

W--> 254 Asp Xaa Glu Glu Xaa Asp Pro Xaa Asp Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

255 1 5 10 15

258 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Gly

259 20 25

262 <210> SEQ ID NO: 4

263 <211> LENGTH: 290

264 <212> TYPE: PRT

265 <213> ORGANISM: Artificial

267 <220> FEATURE:

268 <223> OTHER INFORMATION: Li-sensitive sequence uniting motif for Impasel.

271 <220> FEATURE:

272 <221> NAME/KEY: MISC_FEATURE

273 <222> LOCATION: (1)..(46)

274 <223> OTHER INFORMATION: X is any amino acid.

276 <220> FEATURE:

277 <221> NAME/KEY: MISC_FEATURE

278 <222> LOCATION: (48)..(69)

279 <223> OTHER INFORMATION: X is any amino acid.

281 <220> FEATURE:

282 <221> NAME/KEY: MISC_FEATURE

283 <222> LOCATION: (72)..(89)

284 <223> OTHER INFORMATION: X is any amino acid.

286 <220> FEATURE:

287 <221> NAME/KEY: MISC_FEATURE

288 <222> LOCATION: (96)..(218)

289 <223> OTHER INFORMATION: X is any amino acid.

291 <220> FEATURE:

292 <221> NAME/KEY: MISC_FEATURE

293 <222> LOCATION: (221)..(231)

294 <223> OTHER INFORMATION: X is any amino acid.

296 <220> FEATURE:

297 <221> NAME/KEY: MISC_FEATURE

298 <222> LOCATION: (234)..(290)

299 <223> OTHER INFORMATION: X is any amino acid.

301 <400> SEQUENCE: 4

W--> 303 Xaa Xaa

304 1 5 10 15

307 Xaa Xaa

308 20 25 30

311 Xaa Asp Xaa

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/635,265A

DATE: 01/13/2004
 TIME: 15:17:21

Input Set : A:\180-158-2.seq listing.ST25rev1.txt
 Output Set: N:\CRF4\01132004\J635265A.raw

312 35 40 45
 315 Xaa
 316 50 55 60
 319 Xaa Xaa Xaa Xaa Xaa Glu Glu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 320 65 70 75 80
 323 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asp Pro Ile Asp Gly Thr Xaa
 324 85 90 95
 327 Xaa
 328 100 105 110
 331 Xaa
 332 115 120 125
 335 Xaa
 336 130 135 140
 339 Xaa
 340 145 150 155 160
 343 Xaa
 344 165 170 175
 347 Xaa
 348 180 185 190
 351 Xaa
 352 195 200 205
 355 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Trp Asp Xaa Xaa Xaa Xaa
 356 210 215 220
 359 Xaa Xaa Xaa Xaa Xaa Xaa Gly Gly Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 360 225 230 235 240
 363 Xaa
 364 245 250 255
 367 Xaa
 368 260 265 270
 371 Xaa
 372 275 280 285
 375 Xaa Xaa
 376 290
 379 <210> SEQ ID NO: 5
 380 <211> LENGTH: 399
 381 <212> TYPE: PRT
 382 <213> ORGANISM: Artificial
 384 <220> FEATURE:
 385 <223> OTHER INFORMATION: Li-sensitive sequence uniting motif for lptase.
 388 <220> FEATURE:
 389 <221> NAME/KEY: MISC_FEATURE
 390 <222> LOCATION: (1)..(53)
 391 <223> OTHER INFORMATION: X is any amino acid.
 393 <220> FEATURE:
 394 <221> NAME/KEY: MISC_FEATURE
 395 <222> LOCATION: (55)..(78)
 396 <223> OTHER INFORMATION: X is any amino acid.
 398 <220> FEATURE:
 399 <221> NAME/KEY: MISC_FEATURE

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/635,265A

DATE: 01/13/2004
TIME: 15:17:22

Input Set : A:\180-158-2 seq listing.ST25rev1.txt
Output Set: N:\CRF4\01132004\J635265A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; Xaa Pos. 2,5,8,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25
 Seq#:4; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22
 Seq#:4; Xaa Pos. 23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41
 Seq#:4; Xaa Pos. 42,43,44,45,46,48,49,50,51,52,53,54,55,56,57,58,59,60,61
 Seq#:4; Xaa Pos. 62,63,64,65,66,67,68,69,72,73,74,75,76,77,78,79,80,81,82
 Seq#:4; Xaa Pos. 83,84,85,86,87,88,89,96,97,98,99,100,101,102,103,104,105
 Seq#:4; Xaa Pos. 106,107,108,109,110,111,112,113,114,115,116,117,118,119
 Seq#:4; Xaa Pos. 120,121,122,123,124,125,126,127,128,129,130,131,132,133
 Seq#:4; Xaa Pos. 134,135,136,137,138,139,140,141,142,143,144,145,146,147
 Seq#:4; Xaa Pos. 148,149,150,151,152,153,154,155,156,157,158,159,160,161
 Seq#:4; Xaa Pos. 162,163,164,165,166,167,168,169,170,171,172,173,174,175
 Seq#:4; Xaa Pos. 176,177,178,179,180,181,182,183,184,185,186,187,188,189
 Seq#:4; Xaa Pos. 190,191,192,193,194,195,196,197,198,199,200,201,202,203
 Seq#:4; Xaa Pos. 204,205,206,207,208,209,210,211,212,213,214,215,216,217
 Seq#:4; Xaa Pos. 218,221,222,223,224,225,226,227,228,229,230,231,234,235
 Seq#:4; Xaa Pos. 236,237,238,239,240,241,242,243,244,245,246,247,248,249
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 Seq#:4; Xaa Pos. 264,265,266,267,268,269,270,271,272,273,274,275,276,277
 Seq#:4; Xaa Pos. 278,279,280,281,282,283,284,285,286,287,288,289,290
 Seq#:5; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22
 Seq#:5; Xaa Pos. 23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41
 Seq#:5; Xaa Pos. 42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61
 Seq#:5; Xaa Pos. 62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,81,82
 Seq#:5; Xaa Pos. 83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101
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 Seq#:5; Xaa Pos. 116,117,118,119,120,121,122,123,124,125,126,127,128,129
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 Seq#:5; Xaa Pos. 144,145,146,147,148,149,150,151,152,159,160,161,162,163
 Seq#:5; Xaa Pos. 164,165,166,167,168,169,170,171,172,173,174,175,176,177
 Seq#:5; Xaa Pos. 178,179,180,181,182,183,184,185,186,187,188,189,190,191
 Seq#:5; Xaa Pos. 192,193,194,195,196,197,198,199,200,201,202,203,204,205
 Seq#:5; Xaa Pos. 206,207,208,209,210,211,212,213,214,215,216,217,218,219
 Seq#:5; Xaa Pos. 220,221,222,223,224,225,226,227,228,229,230,231,232,233
 Seq#:5; Xaa Pos. 234,235,236,237,238,239,240,241,242,243,244,245,246,247
 Seq#:5; Xaa Pos. 248,249,250,251,252,253,254,255,256,257,258,259,260,261
 Seq#:5; Xaa Pos. 262,263,264,265,266,267,268,269,270,271,272,273,274,275
 Seq#:5; Xaa Pos. 276,277,278,279,280,281,282,283,284,285,286,287,288,289
 Seq#:5; Xaa Pos. 290,291,292,293,294,295,296,297,298,299,300,301,302,303
 Seq#:5; Xaa Pos. 304,305,306,307,308,309,310,311,312,313,314,317,318,319
 Seq#:5; Xaa Pos. 320,321,322,323,324,325,326,327,330,331,332,333,334,335
 Seq#:5; Xaa Pos. 336,337,338,339,340,341,342,343,344,345,346,347,348,349
 Seq#:5; Xaa Pos. 350,351,352,353,354,355,356,357,358,359,360,361,362,363
 Seq#:5; Xaa Pos. 364,365,366,367,368,369,370,371,372,373,374,375,376,377
 Seq#:5; Xaa Pos. 378,379,380,381,382,383,384,385,386,387,388,389,390,391

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/13/2004
PATENT APPLICATION: US/10/635,265A TIME: 15:17:22

Input Set : A:\180-158-2 seq listing.ST25rev1.txt
Output Set: N:\CRF4\01132004\J635265A.raw

Seq#:5; Xaa Pos. 392,393,394,395,396,397,398,399
Seq#:6; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22
Seq#:6; Xaa Pos. 23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41
Seq#:6; Xaa Pos. 42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60
Seq#:6; Xaa Pos. 61,62,63,64,65,66,67,68,69,70,71,72,73,74,76,77,78,79,80
Seq#:6; Xaa Pos. 81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,100,101
Seq#:6; Xaa Pos. 102,103,104,105,106,107,108,109,110,111,112,113,114,115

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/635,265A

DATE: 01/13/2004

TIME: 15:17:22

Input Set : A:\180-158-2 seq listing.ST25rev1.txt
Output Set: N:\CRF4\01132004\J635265A.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:254 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
M:341 Repeated in SeqNo=3
L:303 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
M:341 Repeated in SeqNo=4
L:420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
M:341 Repeated in SeqNo=5
L:561 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
M:341 Repeated in SeqNo=6